Index, Vol. 24, January to June, 1924

Concrete

MEMBER ASSOCIATED BUSINESS PAPERS, INC.
MEMBER AUDIT BUREAU OF CIRCULATIONS

A MONTHLY MAGAZINE DEVOTED TO CONCRETE CONSTRUCTION AND CEMENT MANUFACTURE

Detroit, Michigan, U. S. A.

CONCRETE-CEMENT AGE PUBLISHING CO.

R. MARSHALL, President

1807 East Grand Blvd. at Moran Street — Telephone Melrose 3814

HARVEY WHIPPLE, Editor — ROBERT W. LESLEY, Consulting Editor — DWIGHT F. JENNINGS, Associate Editor

Board of Associate Editors

ERNEST F. BENT, President, Bent Concrete Pipe Co., Los Angeles, Calif.
E. L. CONWELL, President, E. L. Conwell & Co., Inc., Philadelphia.
HENRY J. HARMS, Engineer and Builder, c/o Continental Petroleum Co., Rotterdam, Netherlands.
EDWARD N. HINES, Chairman, Wayne County Road Commn., Detroit.
WILLIAM M. KINNEY, Engr., General Manager, Portland Cement Association, Chicago.
H. J. KUELLING Asst. State Highway Engr., Madison, Wis.
RICHARD K. MEADE, Chemical, Mechanical and Industrial Engr., Baltimore, Md.
MILTON DANA MORRILL, Architect, N. Y. C.
J. P. H. PERRY, Vice-Pres., Turner Construction Co., N. Y. C.
HENRY P. WARNER, Pres., Onondaga Litholite Co., Syracuse, N. Y.
J. C. WITT, Structural Materials Research Laboratory, Chicago.

NEW YORK: Room 1710, 115 Broadway, F. F. LINCOLN, Eastern Manager. Phone: Rector 9938.
PHILADELPHIA: 611 and 612 Pennsylvania Bldg., ROBERT W. LESLEY, Consulting Editor.
CHICAGO: Room 901 Hurst Bldg., 326 West Madison St., W. F. LEGGETT, Western Manager. Phone: Main 0233.
ST. LOUIS: 509 Security Bldg. C. A. SCHULENBURG.
BRITISH AGENTS: THE WALTER DANDIE CO., LTD., 173 Great Portland St., London, W. I., England.
JAPANESE AGENTS: MAZUREN COMPANY, LTD., 11 to 16, Nihonbashi Tori — Sanchome, Tokyo, Japan. Branches at: Kanda, Tokyo, Yokohama, Osaka, Fukuoka, Kyota, Sendai.
GERMAN AGENTS: UEBERSEE - VERLAGS - ANSTALT, GmbH., Berlin-W. 8, Friedrichstrasse 59-60, Germany.
AUSTRALIAN AGENT: E. S. ROWE, 23 Vickery's Chambers, 76 Pitt St., Sydney, N. S. W.
NEW ZEALAND AGENTS: R. HILL & SON, Matlock House, Devonport, Auckland, N. Z.

Subscription Price: Regular Edition, $2.50 in United States, Mexico, and U. S. Possessions; Cement Mill Edition, $3.00.
Canadian postage, 50c extra; foreign postage, $1.00 extra.

Copyright 1924 by CONCRETE-CEMENT AGE PUBLISHING CO.

Nothing has been indexed under "concrete" and nothing under "cement" except when the nature or testing of cement is involved or some statistics as to its production or use. Illustrated articles are denoted by an asterisk after the title. The months and pages are given.

A

Abrams, Duff A.—Testing Materials for Concrete Pavements....Apr. 155
—Tests of Impure Water for Mixing Concrete ....June 241
Accelerators (A. C. I. Discussion)....Mar. 93
—for Concrete, Lowering the Freezing Point Jan. 33
Accident Prevention (A. C. I. Discussion)...Mar. 95
Admixtures, Economic Value of (A. C. I. Paper by J. C. Pearson, and Frank A. Hitchcock) ....Mar. 96
Advertising Methods of John McClatchy, Philadelphia, Builder of Houses*....Feb. 47
—Methods, Houston, Texas, Plant*, by Grady Triplett....May 194
Aggregate, Cinder, Patents and Historical Notes; Cinder Concrete Building Units; Straub Cinder Block Patent; Bo Process of Making Units from "Purified Cinders" by Harvey Whipple....June 226
—Slag....June 225
—Tests, Boulder Canyon Dam....Feb. 71
—Weighing, Roads (Digest A. C. I. Paper by R. W. Crum)....Mar. 114
—Surfaces—A Highly Colored Igneous Rock Deposit....Apr. 167
Alkali—Curing Conditions of Concrete Drain Tile —A Factor of Resistance to Sulfate Waters* by Dalton G. Miller....June 235
Alumina Cement to be Manufactured by Atlas Lumnite Company....May 211
Aluminate Cement (A. C. I. Paper), by Col. Henry S. Spackman....Mar. 88
American Concrete Institute (Editorial)....Mar. 83
—Concrete Institute Convention, 20th Anniversary (Advance Program)....Jan. 31
—Concrete Institute Convention....Mar. 113
—Concrete Institute Program....Feb. 72
—Concrete Pipe Association Convention, Manufacturers Review Conditions....Feb. 79
—Engineering Council Headed by James Hartness....Feb. 78
Appraisers' and Adjustors' Handbook (New Book) by William Arthur...Apr...Page following 172
Architects, Concrete Construction for (New Book) ....June 259
Architectural Concrete (A. C. I Paper), by John J. Earley....Mar. 91
—Research, Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundations, Products, Roads (Digest A. C. I. 20th Anniversary Symposium)....Mar. 116
Architecture, Finest Concrete (Editorial)....Apr. 127
—Reinforced Concrete These Past Twenty Years*, (A. C. I. Paper), by Albert Kahn ....Apr. 129
Army Supply Base (Pictures Only)....Apr. 129
Arundel Shope Brick Plant, Baltimore, Economy of Handling Materials in*, by Charles B. Bryant....Mar. 97
Atlas Lumnite Company to Manufacture Alumina Cement....May 211
Authors, Good Advice for....Jan. 34
Automobiles vs. Houses....Feb. 43

B

Baker, R. H.—Building Foundations for Future Roads....Jan. 10
Bassano, Alberta, Canada, Hollow Type Dam at* ....June 245
Belt Conveyors—Placing Concrete*....Apr. 141
Bending Momemts in Columns (A. C. I. Paper by F. E. Richert; Digest Only)....Mar. 118
Beyer, Albin H.—Cinder Concrete Units Fire and Water Test*....Jan. 25
Block(from A. C. I. Paper by William F. Lockhardt)....May 197
—32-in. in Steel Molds....May 214
—Architect's View of, by H. J. Rotier....Apr. 170
—Brick, Tile, Which to Make, William F. Lockhardt....June 239
—Building in England*, by Charles Marques.. ....May 203
—Building in England....June 258
—Fire Resistance (A. C. I. Report, Reference Only)....Mar. 115
—Fire Resistance of Concrete (A. C. I. Committee Report; Digest)....Mar. 119
—Increasing the Strength of Lime....May 214
—Light Weight, Made Face Up for Facing* May 216
—Machine, Stripper, Kent*....June 261
—Nel-Stone, Tests of....Mar. 124
—New V-Section....May 214
—Tests in Milwaukee, Aggregates, Proportions, Curing....Jan. 34
—Tile, Brick, Building, Tentative Specifications (A. C. I.; Reference Only)....Mar. 116
Bo Process of Making Units from "Purified Cinders"; Cinder Aggregate, Patents and Historical Notes, by Harvey Whipple....June 226
Borgert, L. A., Masonry Concrete Houses in Minnesota*....Feb. 67
Brick, 100 Varieties of Concrete, in Tampa, Florida Plant*....May 212
—and Roof Tile in China*, by Paul J. Hawkins ....Mar. 101
—Block, Tile, Building, Tentative Specifications (A. C. I.; Reference Only)....Mar. 116
—Block, Tile, Which to Make, by William F. Lockhardt....June 239
—Concrete Plant at Newark....Jan. 27
—Lime for Silica....June 258
—Manufacture, Economy in Handling Materials in Arundel Shope Brick Plant, Baltimore*, by Charles B. Bryant....Mar. 97
—Quality of Concrete, Tests, Manufacturing Methods, From a report by E. W. Dienhart and Stanton Walker....May 209
Bridges, Adjustable Steel Centering for Concrete Arch*....May 217
—Construction (Digest A. C. I. Paper by J. B. Hunley)....Mar. 114
—Construction, Unusual Method of Sinking Piles in*, by L. J. Sverdrup....Mar. 125
—Delaware River, Foundations for Anchorages* by Charles Carswell....Mar. 103
—Long Span Arch Built over Old....May 207
—Longest Concrete Bridge Span Includes Deck Suspended from Arch Ribs*, by Henry J. Harms....Apr. 138
—Mass Concrete, Mechanical Equipment, Building Construction, Foundations, Products, Architectural, Research, Roads (Digest A. C. I. 20th Anniversary Symposium)..Mar. 116

—Minnesota River, Connecting Fort Snelling and Mendota, 4119 feet*.....May 208
—Reinforced Concrete (A. C. I. Paper by A. E. Lindau).....May 199
—Western Gateway Mohawk River, Schenectady*.....June 248
Bryant, Charles B.—Economy in Handling Materials in Brick Manufacture—Baltimore Plant *.....Mar. 97
Building Construction, A. G. C. Chapter Compiles Costs.....May Page following 218
—Construction—Form Costs Corrected....Jan. 14
—Construction—Forms Details, Taking the Hand Saw Away from the Form Carpenters*, by Nelson L. Protheroe.....Jan. 15
—Construction, Mass Concrete, Mechanical Equipment, Bridges, Foundations, Products, Architectural, Research—Roads (Digest, A. C. I. 20th Anniversary Symposium) Mar. 116
—Construction—New York Edison Company Ten-Story Reinforced Concrete Service Building Erected one Story per Week*, by Frank W. Skinner.....June 221
—Construction, Tests of Control in (A. C. I. Paper by W. A. Slater; Reference Only).....Mar. 117
—Construction—Warehouse Design, Long Span Concrete Construction,* Salt Lake City, by A. B. Villadsen.....June 233
—Design, Minimum Live Load Requirements.....Apr. 166
—Laws, Block, from A. C. I. Paper by William F. Lockhardt.....May 197
Laws Enforcement.....June 258
—Laws—Houses (A. C. I. Report; Reference Only).....Mar. 115
—Laws—Minimum Requirements for Masonry Wall Construction.....Feb. 74
—Laws—Reinforced Concrete Design (A. C. I. Report; Digest Only).....Mar. 119
Business Conditions, What Contractors Want and Don't Want.....Feb. 81

C

Calcium Chloride, Curing Roads with, by H. F. Clemmer.....Apr. 148
California Memorial Stadium Combines Earth Bowl and Coliseum Type Concrete Construction*.....Apr. 143
Carswell, Charles—Constructing Reinforced Concrete Foundation of Delaware River Bridge Anchorages*.....Mar. 103
Cement, Aluminate (A. C. I. Paper), by Col. Henry S. Spackman.....Mar. 88
Cement, Effect of Storage.....June 225
—Industry Centennial.....Jan. 31
—Investigation, Government Committee to Study Cement and Concrete.....May 211
—Manufacture (A. C. I. Paper), by F. W. Kelley.....Mar. 85
—Manufacture, Progress in.....May 214
—Plant Model Made Largely of Cement*, by Henry W. Nichols.....Apr. 163
—Prices, Their Basis, Character and Present Position (New Book).....May 218
—Survey, New Committee Will Cooperate with Bureau of Standards.....Feb. 77
Centrifugal Concrete Pipe, German*, by E. Lee Heidenreich.....June 259
Chicago Concrete Products Association Builds Show House.....Apr. 165
Chimneys—Floors—Sidewalks—Walls (Construction Kinks)*, by H. H. Siegele.....Apr. 168
China, Brick and Roof Tile in, by Paul J. Hawkins.....Mar. 101
Cinder Aggregate, Patents and Historical Notes; Cinder Concrete Building Units; Straub Cinder Block Patent; Bo Process of Making Units from "Purified Cinders", by Harvey Whipple.....June 226
—Block, Hollow Slabs Tested*.....Apr. 135
—Block Men after Higher Quality.....May 213
—Block—Stock Pile of Concrete Specialties Company, by A. J. R. Curtis.....May 195
—Concrete Building Units; Straub Cinder Block Patent; Bo Process of Making Units from "Purified Cinders," Cinder Aggregate, Patents and Historical Notes, by Harvey Whipple.....June 226
—Concrete Unit Partitions—Cinder Concrete Units Fire and Water Test*, by Albin H. Beyer.....Jan. 25
Clemmer, H. F.—Subgrade Supports, a Factor in Pavement Design*.....Jan. 9
—Can We Cut Down the Curing Period for Concrete Roads (Calcium Chloride).....Apr. 148
Coal Chute, Gabriel*.....May 215
Cold Weather Concreting.....Jan. 33
—Weather Methods (A. C. I. Discussion).Mar. 93
Coloring Sidewalks Red.....Apr. 165
Columns, Bending Moments (A. C. I. Paper by F. E. Richert; Digest Only).....Mar. 118
Composition Floors and Stuccos.....Jan. 35
Concrete Specialties Company, Cinder Block Stock Pile of, by A. J. R. Curtis.....May 195
Consistency, Water-Cement Ratio,* by D. H. Dixon.....June 243
—Wet or Dry Mix? (Editorial).....Apr. 127
Contracting—Business Conditions—What Contractors Want and Don't Want.....Feb. 81
—Contracts for Unlimited Quantities, by Eugene K. Sturgis.....Jan. 22
—Costs of Construction (General).....Jan. 36
Contractor's Plant (A. C. I. Report; Reference Only).....Mar. 115
Contracts for Unlimited Quantities, by Eugene K. Sturgis.....Jan. 22
Coral Gables, Florida, Block Houses*.....Feb. 45
Corrosion of Metals.....June 257
Cost Accounting, Construction (New Book)..June 260
Costs, A. G. C. Chapter Compiles.....May Page following 218
Crane, Shovel Attachment for Gasoline Crawler*.....May 217
Crum, R. W.—Iowa Weighs All Aggregates..Jan. 9
—Digest of A. C. I. Paper "New Practice of Iowa State Highway Department Control of Quality of Concrete."....Mar. 114
Culvert Pipe Standards (A. C. I. Reference Only).....Mar. 115
—Pipe Tests (Digest A. C. I. Paper by G. W. Hutchinson).....Mar. 114
—Pipe, Tests of Flow Through Concrete and Other Pipe, by C. E. DeLeuw.....Jan. 21
Curing Conditions—Clay Dam for Ponding*.June 255
—Conditions of Concrete Drain Tile—A Factor of Resistance to Sulfate Waters*, by Dalton G. Miller.....June 235
Curtis, A. J. R.—Significant Development of the Hueber Monolithic Houses at Syracuse*.....Feb. 51
—Concrete Specialties Company Tops List May 195

D

Dam, Arch, Tasmania*, by Major Johnstone-Taylor.....June 247
—Boulder Canyon, Aggregate Tests.....Feb. 71
—Hollow Type at Bassano, Alberta, Canada*.....June 245
—Reinforced Multi-Arch Design Adopted by Swedish Engineers*, by Major Johnstone-Taylor.....Apr. 152
Dana (Charles Bates) Fireproof Monolithic Houses, Darien, Conn.*, by Milton Dana Morrill.....Feb. 64
Delano, Frederick M. Jr.—Housing a Blimp in Reinforced Concrete*.....Jan. 23
DeLeuw, C. E.—Flow Through Concrete and Other Culvert Pipes.....Jan. 21
Design of Concrete Structure (New Book) by L. C. Urquhart and C. E. O'Rourke.....Apr. Page following 172
—Warehouse, Long Span Concrete Construction, Salt Lake City*, by A. B. Villadsen...June 233
Destructive Agents—Behavior of Cement Mortar and Concrete in German Bogs.....May 207
—Agents—Curing Conditions of Concrete Drain Tile—A Factor of Resistance to Sulfate Waters*, by Dalton G. Miller.....June 235
—Agents—Failures of Concrete and Their Causes and Remedies (A. C. I. Report, Reference Only).....Mar. 118
—Agents—Krodeproof to Protect Steel....May Page following 218
—Agents—Water Barge Resists Sea Water*.....June 246
Dienhart, E. W. (and Stanton Walker)—What is a Good Concrete Brick and What Is It Made of?.....May 209
—The Economical Manufacture of Quality Concrete Products*.....May 182
Dixon, D. H.—Better Concrete: Water-Cement Ratio*.....June 243
Dope for Mold Coating.....Apr. 166
Drain Tile and Sewer Pipe (Tentative A. C. I. Standards; Reference Only).....Mar. 115
Tile, Curing Conditions of Concrete—A Factor of Resistance to Sulfate Waters*, by Dalton G. Miller.....June 235
—Tile Men in Minnesota Work Together..Feb. 78
Drill, New Size Pneumatic*.....May 215
Dvorak System Precast Unit Houses in Texas*.....Feb. 70

E

Earley, John J.—Architectural Concrete (A. C. I. Paper).....Mar. 91
Earthquake and Fire Resistance of Structures in Japan (A. C. I. Papers by H. M. Hadley and Joseph S. Ruble).....Mar. 114
Edge, W. S.—National Concrete Highway Tests..Mar. 112
Edison Company, New York, Ten Story Reinforced Concrete Service Building Erected One Story per Week*, by Frank W. Skinner.....June 221
Ege, C. R.—Roads, Symposium in 1924; Progress in Concrete Road Construction and Design in 1923; Review of Year*.....Jan. 3
Engines, 4-cylinder gas (A. C. I. Discussion) Mar. 94
England, Block Building in*, by Charles Marques.....May 203
—Block Building in.....June 258
Estimating Concrete (A. C. I. Report; Reference Only).....Mar. 115
Estimator's Reference Book, The Building (New Book).....June 259
Expansion Joints (A. C. I. Report; Reference Only).....Mar. 118

F

Failures of Concrete and Their Causes and Remedies (A. C. I. Report, Reference Only) Mar. 118
Fire Resistance of Block (A. C. I. Report; Reference Only.....Mar. 115
—Resistance of Concrete Block (Digest of A. C. I. Committee Report).....Mar. 119
—Resistance of Structures in Japan (A. C. I. Papers by H. M. Hadley and Joseph S. Ruble).....Mar. 114
—Resistive Interior Construction.....Feb. 78
—Tests—Cinder Concrete Units Fire and Water Test*, by Albin H. Beyer.....Jan. 25
Flagg System, Forms, Construction Methods and Details of Monolithic Houses*, by Harvey Whipple.....Feb. 55
Floor Design—Hollow Cinder Block Slabs Tested*.....Apr. 135
—Finish (A. C. I. Discussion).....Mar. 95
—Finish—Applying Top Coat, by Nelson L. Protheroe.....Jan. 30
—Finish, Getting a Hard Monolithic.....May 213
—Finish—Target for Leveling*.....Feb. 82
—Leakage, Stopping.....May 213
—Composition and Stuccoes.....Jan. 35
—Linoleum on Concrete*.....Jan. 19
—Sidewalks—Walls and Chimneys (Construction Kinks)*, by H. H. Siegele.....Apr. 168
Florida, Block Houses at Coral Gables*.....Feb. 45
—Gulf Beach Highway in Pensacola*, by W. E. Wheat.....Jan. 13
Fordson, Adapting to Concrete Work for Hoist and Mixer*, by Grady Triplett.....June 260
Form Costs Corrected.....Jan. 14
Form Dope, New, Exposes Aggregate.....Mar. 126
—Lubricant, Dope to Prevent Sticking....Apr. 166
—Avoiding Warp in.....May 212
—Bull Dog Fastener for*.....May 206
—Construction Methods and Details of Flagg System Monolithic Houses*, by Harvey Whipple.....Feb. 55
—Design for Economy (A. C. I. Discussion)....Mar. 95
—Details—Taking the Hand Saw Away from the Form Carpenters*, by Nelson L. Protheroe.....Jan. 15
Foundations, Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Products, Architectural, Research, Roads (Digest A. C. I. 20th Anniversary Symposium).....Mar. 116
Freak Concrete—Stucco, Imitating Stone*...Apr. 169
Freight Cars, Reinforced Concrete*.....June 258

G

Garages of Precast Units*.....Mar. 124
Gard, J. M.—Difficult Road Job in Kentucky Mountains*.....Jan. 12
Grandstands, Placing Concrete in.....Apr. 159

H

Hadley, H. M. (and Joseph S. Ruble)—How Structures Withstood the Japanese Earthquake and Fire.....Mar. 114
Hangars, Blimp, in France of Reinforced Concrete* by Frederick M. DeLano, Jr.....Jan. 23
Hardener, Sodium Silicate as a Concrete.....Apr. 166
Harms, Henry J.—Longest Concrete Bridge Span Includes Deck Suspended from Arch Ribs*.....Apr. 138

Hartness, James, Heads American Engineering Council....Feb. 78
Havlik, Robert F.—Concrete Products in 20 Years (A. C. I. Paper)....May 195
Hawkins, Paul J.—Concrete Brick and Roof Tile in China*....Mar. 101
Heavey, Capt. W. F.—Concreting Plant for Ohio River Lock*....Apr. 146
Heidenreich, E. Lee—German Centrifugal Concrete Pipe*....June 259
Hitchcock, Frank A. (and J. C. Pearson)—The Economic Value of Admixtures (A. C. I. Paper)....Mar. 96
Hoist and Mixer, Adapting the Fordson to Concrete Work for*, by Grady Triplett...June 260
House—Automobiles vs. Homes....Feb. 43
—Block, Coral Gables, Florida*....Feb. 45
—Bootlegger's Fortress of Concrete*....Feb. 81
—Building Laws (A. C. I. Report; Reference Only)....Mar. 115
—Concrete Masonry, Gets More Advertising....June 257
—Duntile and Stucco....Mar. 100
—Fireproof—Concrete Masonry and Monolithic (Editorial)....Feb. 41
—Masonry Concrete in Minnesota, by L. A.* Bogert....Feb. 67
—McClatchy, John, Builder, Philadelphia; Advertising Methods*....Feb. 47
—Monolithic, Dana (Charles Bates) Fireproof, Darien, Conn.*, by Milton Dana Morrill....Feb. 64
—Monolithic, Double Wall, McClure System, California*....Feb. 68
—Monolithic—Flagg System, Forms, Construction Methods and Details*, by Harvey Whipple....Feb. 55
—Monolithic, Francis Wilson, Rockville Center, L. I., F. D. Lambie Forms*, by Francis Wilson....Feb. 58
—Monolithic; German System; Wood Forms*....Feb. 60
—Monolithic, Hueber System, Plans, Details*, by A. J. R. Curtis....Feb. 51
—Monolithic, Inspiration Copper Mining Company, Miami, Arizona*....Feb. 50
—Monolithic, Olmstead System*....Feb. 75
—Plan Book....May 214
—Plans, Exposition, Block or Monolithic, M. D. Morrill, Architect*, by Milton Dana Morrill....Feb. 61
—Precast Units, Dvorak System, Texas*..Feb. 70
—Precast Units—Kent System in England* Feb. 69
—Stucco, Engineers Lodge, W. L. Searles..Feb. 63
—Wigglesworth System, Belmont, Mass*..Apr. 171
Houston, Texas Plant, Advertising Methods of*, by Grady Triplett....May 194
How High Is Up? (Editorial)....Apr. 127
Heuber System, Plans, Details, of Monolithic Houses*, by A. J. R. Curtis....Feb. 51
Humphrey, Richard L., Address at 20th Anniversary American Concrete Institute—The Past and Future of Concrete....Mar. 84
Hunley, J. B.—Digest of A. C. I. Paper "Old and New Methods of Constructing Concrete Bridges"....Mar. 114
Hutchinson, G. W. (Digest of Paper on Culvert Pipe Tests)....Mar. 114

I

Inspiration Copper Mining Company, Miami, Arizona, Monolithic House*....Feb. 50
Iowa Engineering Society Annual Meeting...Jan. 37

J

Johnstone-Taylor, Major—Arched Concrete Dam for Tasmanian Barrage*....June 247
—Reinforced Multi-Arch Dam Design Adopted by Swedish Engineers*....Apr. 152

K

Kahn, Albert—Reinforced Concrete Architecture These Past Twenty Years* (A. C. I. Paper)....Apr. 129
Kaiser, W. G.—How Storm Proof Are Concrete Stave Silos*....Apr. 145
Kelley, F. W.—Progress in Cement Manufacture in 20 Years....Mar. 85
Kent System in England—Houses of Precast Units*....Feb. 69
Kentucky Mountains, Difficult Road Job in*, by J. M. Gard....Jan. 12
Kilpatrick, J. Reid—Winter Stops Work But 14 Days....Feb. 76
Krier, George H.—Quantity Production in George H. Krier's Block Plant*....May 188
—Plant—Quantity Production*, by George H. Krier....May 188
Krodeproof to Protect Steel..May..Page following 218
Kuelling, H. J.—Road Design a Matter of Locality*....Jan. 6

L

Labor Conditions, Stimulating Pride of Craft in the Construction Field (Editorial)....June 219
Lambie, F. D., Forms in Monolithic Houses of Francis Wilson, Rockville Center, L. I.*, by Francis Wilson....Feb. 58
Lapierre, C. C.—Unusual Road Job of Thin Slab at St. Casimir, Quebec....Jan. 37
Lath, Metal, Durability of*, by J. C. Pearson..Feb. 74
—Metal for Fire-Resistive Interior Construction....Feb. 78
—Metal Save Space in Partitions*....Feb. 82
Lime Block, Increasing the Strength of....May 214
—for Silica Brick....June 258
Lindau, A. E.—A. C. I. Paper—Reinforced Concrete Bridges....May 199
—Leaves Corrugated Bar....Feb. 77
Linoleum on Concrete—How to Lay*....Jan. 19
Loader, Link-Belt Grizzly*....Jan. 39
Locomotive, Milwaukee*....Jan. 39
Lockhardt, William F.—Paper for A. C. I. Building Codes and Building Units....May 197
—Study Conditions Before Building a Products Plant....May 180
—What Shall It Be—Concrete Block, Brick or Tile?....June 239
Loy, H. M.—Expansion Joint Changes in Nevada*....Jan. 6
Lubricant, Dope to Prevent Sticking to Forms Apr. 166

M

MacBride, D. S., Leaves Portland Cement Association....June 258
Madison, J. T.—The Invisible Track Highway in Kentucky*....Jan. 12
Magnesite—Composition Floors and Stuccos..Jan. 35
Marques, Charles—Concrete Block Building in England*....May 203
Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundations, Products, Architectural, Research, Roads (Digest A. C. I. 20th Anniversary Symposium)....Mar. 116
McClatchy, John, Philadelphia, Builder of Houses; Advertising Methods*....Feb. 47
McClure System, Double Wall Monolithic Houses in California*....Feb. 68
Measurement of and Estimating Concrete (A. C. I. Report; Reference Only)....Mar. 115
Mechanical Equipment, Mass Concrete, Building Construction, Bridges, Foundations, Products, Architectural, Research, Roads (Digest A. C. I. 20th Anniversary Symposium)....Mar. 116
McKelway, G. H.—Using Trolley Wire for Reinforcing....Apr. 151
Mile Posts and Whistle Posts of White Portland Cement Concrete*....May 205
Miller, Dalton G.—Curing Conditions of Concrete Drain Tile—A Factor of Resistance to Sulfate Waters*....June 235
Mixer and Hoist, Adapting the Fordson to Concrete Work for*, by Grady Triplett...June 260
—Mounted on Truck Saves Time and Labor*....Mar. 126
—New Smith Non-Tilting*....June 261
—Standardized, Plates for*....Jan. 30
—Value of Used....Apr. 172
Mixing Time of Concrete (A. C. I. Discussion)....Mar. 95
—Water, Effect of Impurities, by Duff A. Abrams....June 241
Mixtures, Designing—Aggregate Tests, Dam Boulder Canyon....Feb. 71
Morene, a New Wall Finish....Jan. 38
Morrill, Milton Dana—"The Burnt Child Dreads the Fire" (Dana, Charles Bates) Fireproof Monolithic Houses, Darien, Conn.*...Feb. 64
—An Exposition House of Concrete*....Feb. 61
—M. D., Architect, Plans Block or Monolithic Exposition House*, by Milton Dana Morrill....Feb. 61
Mother-of-Pearl Tiling....Mar. 110

N

National Concrete Stave Silo Association Convention*....Jan. 18
Nel-Stone Block, Tests of....Mar. 124
Nichols, Henry W.—Cement Plant Model Made Largely of Cement*....Apr. 163

O

Ohio Concrete Products Association Convention....Mar. 122
Older, Clifford—Longitudinal Joints—Thickened Edges....Jan. 11
—Leaves Illinois State Highway Department....Feb. 78
Olmstead System Monolithic Houses*....Feb. 75
Onondaga Litholite Company, Manufacturing Methods of*....May 175

P

Painting Concrete....Apr. 165
Partitions, Space Saving of Metal Lath*....Feb. 82
Pearson, J. C.—Durability of Metal Lath*...Feb. 74
(and Frank A. Hitchcock)—The Economic Value of Admixtures (A. C. I. Paper)....Mar. 96
Pease, B. S.—Road Reinforcing....Jan. 7
Philadelphia, John McClatchy, Builder of Houses; Advertising Methods*....Feb. 47
Piles—Concrete Cast in Place for School Foundation*....Jan. 28
—Sinking by Unusual Methods, in Bridge Construction*, by L. J. Sverdrup....Mar. 125
Pipe, German Centrifugal Concrete*, by E. Lee Heidenreich....June 259
—Manufacture, A Start from a Defeat in Pipe Business*, by Grady Triplett....Mar. 123
—Manufacturers Review Conditions, American Concrete Pipe Association Convention Feb. 79
—Sewer and Drain Tile (Tentative A. C. I. Standards—Reference Only)....Mar. 115
—Tests (Digest of A. C. I. Paper by G. W. Hutchinson)....Mar. 114
—Tests of Flow Through Concrete and Other Pipe, by C. E. DeLeuw....Jan. 21
Placing Concrete—Belt Conveyors*....Apr. 141
—Concrete—Concreting Inclined Slab (A. C. I. Discussion)....Mar. 94
—Concrete, Concreting Ohio River Lock*, by Capt. W. F. Heavey....Apr. 146
—Concrete in Grandstands and Stadia....Apr. 159
Plant, Contractors Concreting Ohio River Lock*, by Capt. W. F. Heavey....Apr. 146
Plaster, Wall, Digest Report of the U. S. Bureau of Standards....Apr. 140
Pollack, Clarence D.—Pavement Foundations....Apr. 154
Ponding, Clay Dam for*....June 255
Portland Cement Association Staff Changes..Apr. 166
Precast Units in Garages*....Mar. 124
Products Manufacture—Block, Brick, Tile, Which to Make, by William F. Lockhardt...June 239
—Manufacture, Cinder Aggregate, Patents and Historical Notes; Cinder Concrete Building Units; Straub Cinder Block Patent; Bo Process of Making Units from "Purified Cinders.", by Harvey Whipple....June 226
—Manufacture—Cinder Block—Stock Pile of Concrete Specialties Company, by A. J. R. Curtis....May 195
—Manufacture—Concrete Products in 20 Years (A. C. I. Paper), by Robert F. Havlik..May 195
—Manufacture, Control of Quality of Concrete in*, by E. W. Dienhart....May 182
—Manufacture, Economy of Control in (A. C. I. Committee Report)....Mar. 120
—Manufacture—English Gravel Plant Makes Concrete Products*....Apr. 167
—Manufacture—Krier Plant—Quantity Production*, by George H. Krier....May 188
—Manufacture, Quality—Manufacturers of Poor Products Should be Eliminated..Jan. 35
—Manufacture — Study Conditions Before Building a Plant, by William F. Lockhardt....May 180
—Manufacture—Tylite Plant, Los Angeles, Layout and Operation*....June 254
—Manufacture—Zagelmeyer System—Advertising Methods, Houston, Texas, Plant*, by Grady Triplett....May 194
—Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundations, Architectural, Research, Roads (Digest A. C. I. 20th Anniversary Symposium)....Mar. 116
—Plants, Cost Keeping for, by William J. Rathke....Apr. 157
Progress of 20 Years—Roads, Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundations, Products, Architectural, Research, (Digest A. C. I. 20th Anniversary Symposium)....Mar. 116
Proportions, What (Editorial)....Apr. 127
Protheroe, Nelson L.—Taking the Hand Saw Away from the Form Carpenter*....Jan. 15
—Applying the Top Coat to Concrete Floors...Jan. 30

Q

Quality of Concrete—3,000 Lb. Concrete Is Required in Florida*, by Winston E. Wheat....Jan. 8
—of Concrete—Building Units (Editorial)..May 173

—of Concrete—Consistency, Water-Cement Ratio*, by D. H. Dixon.....June 243
—of Concrete—Control (A. C. I. Discussion)..Mar. 94
—of Concrete, Control in Bridge Construction (Digest A. C. I. Paper by J. B. Hunley).....Mar. 114
—of Concrete, Control in Roads, Aggregate Weighing (Digest A. C. I. Paper by R. W. Crum).....Mar. 114
—of Concrete, Control of, in Products Manufacture*, by E. W. Dienhart.....May 182
—of Concrete—Economy of Control in Products Manufacture* (A. C. I. Committee Report).....Mar. 120
—of Concrete—Mixing Time (A. C. I. Discussion).....Mar. 95
—of Concrete—Permeability Tests on Gravel and Stone Concrete.....June 256
—of Concrete, Tests of Control in Building Construction (A. C. I. Paper by W. A. Slater; Reference Only).....Mar. 117
—of Concrete, Tests of Control in Building Construction (A. C. I. Report by R. L. Bertin; Reference Only).....Mar. 117
—of Concrete, Wear Resistance.....June 259
Quebec, Unusual Road Job of Thin Slab at St. Casimir, by C. C. Lapierre.....Jan. 37

R

Railway—Drainage Pits for Street Railway*.Jan. 40
—Mile Posts and Whistle Posts of White Portland Cement Concrete*.....May 205
Rathke, William J.—Cost Keeping for Concrete Products Plants.....Apr. 157
Reinforced Concrete, Past and Future—from Address by Richard L. Humphrey, 20th Anniversary Program, American Concrete Institute.....Mar. 84
Reinforcing Bars, Steel—New Billet vs. Rerolled.....June 250
—Details (A. C. I. Discussion).....Mar. 94
—Steel Construction.....Apr. 172
—Trolley Wire for, by G. H. McKelway...Apr. 151
Rents, Nation's, Continue to Rise.....June 257
Research, Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundations, Products, Roads (Digest A. C. I. 20th Anniversary Symposium).....Mar. 116
Richert, F. E.—Bending Moments in Columns (A. C. I. Report; Reference Only).....Mar. 118
Road, Aggregate Weighing (Digest A. C. I. Paper by R. W. Crum).....Mar. 114
—British Concrete (Book).....Jan. 38
—Construction, Difficult Road Job in Kentucky Mountains*, by J. M. Gard.....Jan. 12
—Construction, Gulf Beach Highway, Pensacola, Florida*, by W. E. Wheat.....Jan. 13
—Curing with Calcium Chloride, by H. F. Clemmer.....Apr. 148
—Design, Invisible Track in Kentucky, Details*, by J. T. Madison.....Jan. 12
—Design—Local Matter*, by H. J. Kuelling...Jan. 6
—Design, Longitudinal Joints — Thickened Edges, by Clifford Older.....Jan. 11
—Design—Reinforcing, by B. S. Pease....Jan. 7
—Design—Subgrade, by R. H. Baker.....Jan. 10
—Design, Twin Trails Highway Construction in Canada*.....Jan. 29
—Design—Unusual Job of Thin Slab at St. Casimir, Quebec, by C. C. Lapierre...Jan. 37
—Design, Expansion, Joint Changes in Nevada* by H. M. Loy.....Jan. 6
—Equipment–Macon Roller Matter Settled.June 257
—Equipment, Heltzel.....Jan. 38
—Influence of Highway Transport upon Religious Life* (Prize Essay), by Dorothy Louise Roberts.....Jan. 1
—Lincoln Way Ideal Section to Be Duplicated—Twice as wide.....Mar. 125
—Mass Concrete, Mechanical Equipment, Building Construction, Bridges, Foundation, Products, Architectural, Research (Digest A. C. I. 20th Anniversary Symposium).....Mar. 116
—Pacific Avenue, Vancouver to California.Jan. 35
—Pavements (A. C. I. Reference Only)...Mar .115
—Pavement Foundations, by Clarence D. Pollock.....Apr. 154
—Prize Essay, Influence of Highway Transport upon the Religious Life of My Community*, by Dorothy Louise Roberts.....Jan. 1
—Profits from Improved.....Apr. 158
—Quality of Concrete, 3,000 Lb. Concrete is Required in Florida*, by Winston W. Wheat.....Jan. 8
—Replacing Cuts Through Concrete Pavements.....Apr. 137
—Show and Convention (Advance Notice).Jan. 36
—Show, Huge and Colorful.....Feb. 80
—Specifications—Aggregates Weighed, by R. W. Crum.....Jan. 9
—Statistics, Yardage 1918-1923*.....Jan. 2
—Subgrade.....Apr. 156
—Subgrade Support a Factor in Pavement Design*, by H. F. Clemmer.....Jan. 9
—Symposium in 1924, Progress in Concrete Road Construction and Design in 1923; Review of Year; Discussions by C. R. Ege, A. T. Goldbeck, B. H. Piepmeier, R. M. Morton, H. M. Loy, H. J. Kuelling, C. D. Buck, B. S. Pease, G. C. Dillman, Winston E. Wheat, H. F. Clemmer, R. W. Crum, R. H. Baker, Clifford Older and Utah State Road Commission*.....Jan. 3
—Testing Materials for, by Duff A. Abrams...Apr. 155
—Tests, Reinforcing, by W. S. Edge.....Mar. 112
—Traffic Forces on Highways.....Apr. 153
—Wayne County, Michigan.....Jan. 34
Roberts, Dorothy Louise—The Influence of Highway Transport Upon the Religious Life of My Community.....Jan. 1
Roller, Macon Patent Matter Settled.....June 257
Roof Tile and Brick in China*, by Paul J. Hawkins.....Mar. 101
—Tile Machine, Schwarz Automatic*.....June 261
—Tile, Tool to Cut Concrete*.....May 216
—Tile, Varnishing Concrete.....May 214
Rotier, H. J.—Architect's View of Concrete Block.....Apr. 170
Ruble, Joseph S. (and H. M. Hadley)—How Structures Withstood the Japanese Earthquake and Fire.....Mar. 114

S

Sand Cast Concrete—Manufacturing Methods of Onondaga Litholite Co.*.....May 175
School Foundation, Cast Concrete Piling Supports Bearing Wall*.....Jan. 28
Sea Water, Water Barge Resists*.....June 246
Searles, W. L., Engineers Lodge*.....Feb. 63
Separators, Machine to Make (A. C. I. Discussion).....Mar. 94
Sewer Pipe and Drain Tile (Tentative A. C. I. Standards; Reference Only).....Mar. 115
—(A. C. I. Standards; Reference Only)...Mar. 115
Ships—Water Barge Resists Sea Water*.....June 246
Sidewalks (A. C. I. Tentative Standards; Reference Only).....Mar. 115
—Coloring Red.....Apr. 165
—Floors—Walls and Chimneys (Construction Kinks)*, by H. H. Siegele.....Apr. 168
Siegele, H. H.—Floors—Sidewalks—Walls and Chimneys (Construction Kinks)*.....Apr. 168
Silos, How Storm Proof are Concrete Stave?, by W. G. Kaiser.....Apr. 145
—Staves (A. C. I. Tentative Specifications; Reference Only).....Mar. 116
—Staves—Convention of National Concrete Stave Silo Association*.....Jan. 18
Skinner, Frank W.—Ten-Story Reinforced Concrete Service Building Erected One Story per Week*.....June 221
Slab, Concreting Inclined (A. C. I. Discussion) Feb. 94
Slag, Aggregate.....June 225
—Aggregate, Wrecking Reinforced Concrete Building in Cleveland*.....Feb. 73
—Association Officers.....May 214
—Uses of Blast Furnace.....Mar. 126
Slater, W. A.—Digest of A. C. I. Paper, "Methods Used and Results Obtained in Control of Concrete in Building Construction"...Mar. 117
Sodium Silicate as a Concrete Hardener.....Apr. 166
Spackman, Col. Henry S.—What We May Expect to Do with Aluminate Cement (A. C. I. Paper).....Mar. 88
Springfield, Ohio, Products Men to Organize.May 213
Stadia, Placing Concrete in.....Apr. 159
Stadium, California Memorial Combines Earth Bowl and Coliseum Type Concrete Construction*.....Apr. 143
Stave Silos, How Storm Proof Are Concrete*, by W. G. Kaiser.....Apr. 245
Staves—Convention of National Concrete State Silo Association*.....Jan. 18
—Silo (A. C. I. Tentative Specifications; Reference Only).....Mar. 116
Steel Reinforcing Bars—New Billet vs. Rerolled.....June 250
Steel Square Applied to Roof Construction (New Book) by J. P. Draper..Apr...Page following 172
Step Machine, Kent*.....May 215
Sticking—Dopt to Prevent Sticking to Forms Apr. 166
Stimulating Pride of Craft in the Construction Field (Editorial).....June 219
Stone, Sand Cast Concrete—Manufacturing Methods of Onondaga Litholite Co.*..May 175
—Tile Cast Wet on Sand Beds*.....Mar. 111
Straub Cinder Block Patent; Cinder Aggregate Patents and Historical Notes, by Harvey Whipple.....June.. 226
Stucco, Good Workmanship Essential.....June 257
—Imitating Stone*.....Apr. 169
—Imitating Travertine.....Apr. 165
—Composition and Floors.....Jan. 35
Sturgis, Eugene K.—Contracts for Unlimited Quantities.....Jan. 22
Subgrader, Lakewood Steel*.....May 212
Such Work as Our Descendants Will Thank Us For (Editorial).....Apr. 127
Sulfate Waters, A Factor of Resistance to—Curing Conditions of Concrete Drain Tile*, by Dalton G. Miller.....June 235
Surfaces—A Highly Colored Igneous Rock Deposit.....Apr. 167
—Aggregates, Exposed by New Form Dope Mar. 126
—Painting Concrete.....Apr. 165
—Wall Finish, Morene.....Jan. 38
Sverdrup, L. J.—Unusual Method of Sinking Concrete Piles*.....Mar. 125

T

Target for Leveling Floor Finish*.....Feb. 82
Tasmania, Arch Dam*, by Major Johnstone-Taylor.....June 247
Tile, Block, Brick, Building, Tentative Specifications (A. C. I.; Reference Only).....Mar. 116
—Block, Brick, Which to Make, by William F. Lockhardt.....June 239
—Building—Stone Tile, Cast Wet on Sand Beds*.....Mar. 111
—Ornamental, Faced with Mother-of Pearl Mar. 110
Travertine, Stucco Imitating.....Apr. 165
Triplett, Grady—A Start from a Defeat in Pipe Business*.....Mar. 123
—Houston Woman Success As Concrete Contractor*.....May 198
—Saying It with Concrete*.....May 194
—Adapting the Fordson to Concrete Work for Hoist and Mixer*.....June 260
Tylite Plant, Los Angeles, Layout and Operation*.....June 254

U

U. S. Army Supply Base (Pictures Only).....Apr. 129

V

Varnishing Concrete Roof Tile.....May 214
Villadsen, A. B.—Long Span Concrete Construction, Salt Lake City Warehouse*.....June 233

W

Walker, Stanton (and E. W. Dienhart)—What is a Good Concrete Brick and What Is It Made of?.....May 209
Walls—Chimneys—Floors—Sidewalks (Construction Kinks)*, by H. H. Siegele.....Apr. 168
Wall Finish, Morene.....Jan. 38
Warehouse Design, Long Span Concrete Construction, Salt Lake City*, by A. B. Villadsen..June 233
Water-Cement Ratio, Consistency of Concrete*, by D. H. Dixon.....June 243
—Mixing, Effect of Impurities, by Duff A. Abrams.....June 241
—Softener, a New Household.....Feb. 82
Waterproofing Concrete (A. C. I. Report; Digest Only).....Mar. 118
—Exposure Tests on Colorless.....Mar. 123
—Patching a Leak on a Work-Day Seam*.June 258
—Permeability Tests on Gravel and Stone Concrete.....June 256
—Stopping Floor Leakage.....May 213
Wheat, Winston E.—3,000 lb. Concrete is Required In Florida*.....Jan. 8
—Gulf Beach Highway, Pensacola, Florida* Jan. 13
Whipple, Harvey—Mr. Flagg Proposes Many Interesting Home Innovations and Puts His Faith in Concrete.....Feb. 55
—The Development of Cinder Concrete Building Units. Straub Cinder Block Patent. Bo Process of Making Units from "Purified Cinders."".....June 226
Whistle Posts and Mile Posts of White Portland Cement Concrete*.....May 205
Whitcraft, L. N., District Engineer, Portland Cement Association, Philadelphia.....June 258
Wigglesworth System, Belmont, Mass.*.....Apr. 171
Will It Backslide? (Editorial).....May 173
Wilson, Francis—Mr. Wilson Builds Fireproof Houses with New F. D. Lambie System*..Feb. 58
—Rockville Center, L. I., F. D. Lambie Forms for Monolithic Houses*, by Francis Wilson.....Feb. 58
Winter Construction on New York Schools...Jan. 37
—Construction—Winter Stops Work But 14 Days, by J. Reid Kilpatrick.....Feb. 76
Wisconsin Concrete Products Association....Feb. 77
Woman Contractor, Houston, Texas*, by Grady Triplett.....May 198
Wrecking Reinforced Concrete Building, Cleveland, Slag Aggregate*.....Feb. 73

Z

Zagelmeyer System—Advertising Methods, Houston, Texas Plant*, by Grady Triplett.May 194